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Climate of San Francisco

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NOAA Technical Memorandum NWS WR-126

CLIMATE OF SAN FRANCISCO

E. Jan Null

National Weather Service Forecast Office
San Francisco, California
February 1978

UNITED STATES
DEPARTMENT OF COMMERCE
Juanita M. Kreps, Secretary

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION
Richard Frank,
Administrator

NATIONAL WEATHER
SERVICE
George P. Cressman, Director



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CLIMATE OF SAN FRANCISCO

E. Jan Null
Weather Service Forecast Office
San Francisco, California

I. INTRODUCTION

The purpose of this paper is to provide an overview, both subjectively and numerically, of the climate of San Francisco. It is a compilation of data archived at San Francisco WSO(AV), spanning a 125-year period and is primarily an attempt to bring together under one cover as much of this data as possible. In a city such as San Francisco with a multitude of widely diversified microclimates, any summary such as this must be taken in the context of a random sample.

I wish to express my gratitude to those persons, past and present, at San Francisco WSO(AV) whose previous efforts at organizing these records made my work infinitely easier. Additionally, I thank Tom Loffman (KRON-TV, San Francisco) whose expertise in early San Francisco climate filled in many data gaps of the first 25 years of record.

II. GEOGRAPHICAL AND CLIMATOLOGICAL SUMMARY

San Francisco spreads out over about forty-five square miles of urbanized peninsula with the Pacific Ocean to the west, San Francisco Bay to the east, and the narrow straits of the Golden Gate in the north. The city is built over and around a series of hills, ranging to 936 feet, formed by the San Andreas Fault as part of the Coast Range.

The primary influence upon San Francisco's weather, being in the mid-latitude westerlies, is the proximity of a large body of water to the west (the Pacific Ocean). The resulting climate is characterized as Mediterranean (Etesian), which is represented by only a handful of other locales; notably parts of southern Europe and North Africa, central Chile and the western coasts of Australia and South Africa. This is a climate which is mild and temperate with dry summers and wet winters (classified by Keppen as Cs, "temperate rainy, with dry summer" and by Thornwaite as "subhumid and mesothermal with a summer water deficiency").

Also a contributing factor is the topography of San Francisco, with hills dividing the city into numerous microclimates; the most pronounced differences being the often foggy coastal section compared to the sunnier sections east of the hills. Except for site #10 (Figure 1), all of the observations are from sites in the downtown area in the northeast quadrant of the city. Additionally, the gaps in the hills, especially the Golden Gate (the only passage to the interior at sea level), allow winds and fog to penetrate inland. San Francisco's temperate nature belies the fact that there are seasons, as the changes are somewhat subtle, blending from one to the other gradually.

Each season's weather is governed by the location of an area of high pressure (the Pacific High) centered over the eastern Pacific. As the sun moves north and south from season to season, so does the location of the Pacific High, greatly influencing the weather in the city by the Bay.

Spring finds the High establishing itself off the northern California coast, a position it will occupy through the summer, except to possibly weaken enough to allow an errant April storm to slip into the city. This position intensifies the westerlies, while inland heating, with resulting lower pressures, sets up a pattern of afternoon and evening sea breezes. Along with these winds, coastal stratus and fog (formed by moist air advecting over the cold water of the California Current along the coast) spreads inland during the nighttime hours. Most summer days find the mornings overcast, with the sun gradually evaporating the stratus over the city by noontime. Dense stratus often lingers just to the west, over the cold Pacific waters, ready to move inland come evening.

The above mechanism acts to air-condition San Francisco and keep the average maximum-minimum in a range between fifty and sixty degrees. If the High builds too far north and east, with a resulting offshore flow, then skies are clear and temperatures soar into the eighties or nineties for a couple of days, until the stratus returns.

Early Autumn finds the Pacific High starting to move south for the winter, cutting off the sea breezes and making September and October the year's warmest months. Even at that, on the average, only two days a year exceed ninety degrees. Early October also finds the first Pacific storms of the season slipping into central California, with San Francisco measuring precipitation on about four days.

November brings more and more cloudy days as the storm track from the Gulf of Alaska drops southward with the early winter sun. Most of the fronts that reach the Bay Area are occluded and lack the vigor of those reaching the north coast. Each month through March averages about ten or eleven days of measurable rain which accounts for 85% of the yearly total. Following frontal passages, the southeasterly winds shift to the northwest and become blustery in the clear, cold Arctic air.

Freezing temperatures have been recorded on just eight occasions (all in December and January) in San Francisco; measurable snowfall is almost as rare, occurring only nine times (the last being in January 1952). These events are rare due largely to the urbanized nature of the city, as surrounding areas experience such occurrences almost annually.

March and April bring sunnier skies and gradually warming temperatures as the Pacific High slowly moves north again to its summertime position. Thus the pattern begins to repeat itself as the fog starts to reform on the coast and the westerly sea breezes return.

III. HISTORICAL SUMMARY OF WEATHER OBSERVATIONS

The first weather observations in San Francisco were taken at the Presidio of San Francisco in 1847, but the consecutive record* did not begin until two years later. Thomas Tennet arrived in San Francisco during the Gold Rush of 1849 and began rainfall records August 14, 1849, and temperature data on September 1, 1849.

In 1871 the U. S. Army Signal Service took over the observations on an official basis and it is from that time forward that the more detailed records (such as maximum hourly rainfall) are available. Currently, observations are taken by remote sensors on the roof of the Federal Office Building for rainfall and temperatures and relayed to the Weather Service Office at San Francisco International Airport.

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*A lapse in records from April 18, 1906, to May 1, 1906, occurred due to the earthquake and fire that destroyed much of San Francisco.

STATION LOCATION

Location	Occupied from	Occupied to	Allyline distance and direction from previous location	Latitude North	Longitude West	Elevation above Ground										Remarks
						Sea level	Wind instruments	Extreme thermometers	Psychrometer	Temperature sensor (Mercurial)	Tipping bucket rain gage	Weighting rain gage	8" rain gage	Hygrothermometer	Baroline switch	
COOPERATIVE																
1 NE Corner Union and Duport Streets	8/14/49	7/05/51		37° 48'	122° 24'	125										Rainfall measurements were made at the first six locations by the Thomas Tennant. Rain gage consisted of a 6-inch square top receiver with 2-inch vertical sides. Water drained by funnel into a container large enough to hold 4 inches of rainfall. Gage had exposure within 10 feet of the ground, except at the 6th location where the gage was on a roof 50-55 feet above the ground. All ground elevations, first six locations, are approximate.
2 Corner of Stockton and California Streets	7/01/51	7/18/52	0.6 mi. SSW	37° 48'	122° 24'	175										
3 Powell Street between Pacific and Broadway	7/18/52	Summer 1863	1/3 mi. NW	37° 48'	122° 25'	120										
4 Sacramento Street between Taylor & Jones	Summer 1863	7/18/64	0.4 mi. SW	37° 48'	122° 25'	330										
5 East side Leavenworth Street, between Pine & California Streets	7/18/64	7/18/66	800 ft. SW	37° 47'	122° 25'	260										
6 Battery Street between Washington & Jackson	7/18/66	2/01/71	0.9 mi. DNE	37° 48'	122° 24'	14										
CITY																
7 Merchants Exchange Bldg. Sacramento & Leidesdorff Streets	2/02/71	9/03/96	0.2 mi. SW	37° 48'	122° 24'	15		48	48		75		75			
8 Phelan Building Market, Grant & O'Farrell Streets	9/04/90	10/31/92	0.5 mi. SW	37° 47'	122° 24'	41	109	109	109		101		101			
9 Mills Building 220 Montgomery Street	11/01/92	4/18/06	0.3 mi. NE	37° 48'	122° 24'	25	167	161	161		156		156			Temporary quarters in private residence following earthquake and fire 4/18/06. Improvised exposure of instruments.
10 Residence 3018 Clay Street	5/01/06	9/30/06	3.1 mi. W	37° 47'	122° 27'	257	42	29	29				40			Instruments relocated on new tower.
11 Merchants Exchange Bldg. 465 California Street	10/01/06	10/21/14	3.0 mi. E	37° 48'	122° 24'	17	204	200	200		191		191			Instruments moved to new tower. Thermometer readings probably affected at times by nearby ventilators. Several high buildings affected wind recordings.
Merchants Exchange Bldg. 465 California Street	10/22/14	4/21/19	No Change	37° 48'	122° 24'	17	213	209	209		206		200			
Merchants Exchange Bldg. 465 California Street	4/22/19	5/12/36	No Change	37° 48'	122° 24'	17	243	208	208		202		202			
12 Federal Office Building 50 Fulton Street	5/13/36	Present	1.0 mi. SE	37° 57'	122° 25'	52	132	112	112		124		124			

124 Existing good extent tall building. Area NW Shields was removed. 124 - Added 12/6/33. 124 - Removed 4/3/73. 124 - Replaced at airport. 124 - Weather Service Office effective 4/3/73. 124 - Decommissioned Dec. 1973.

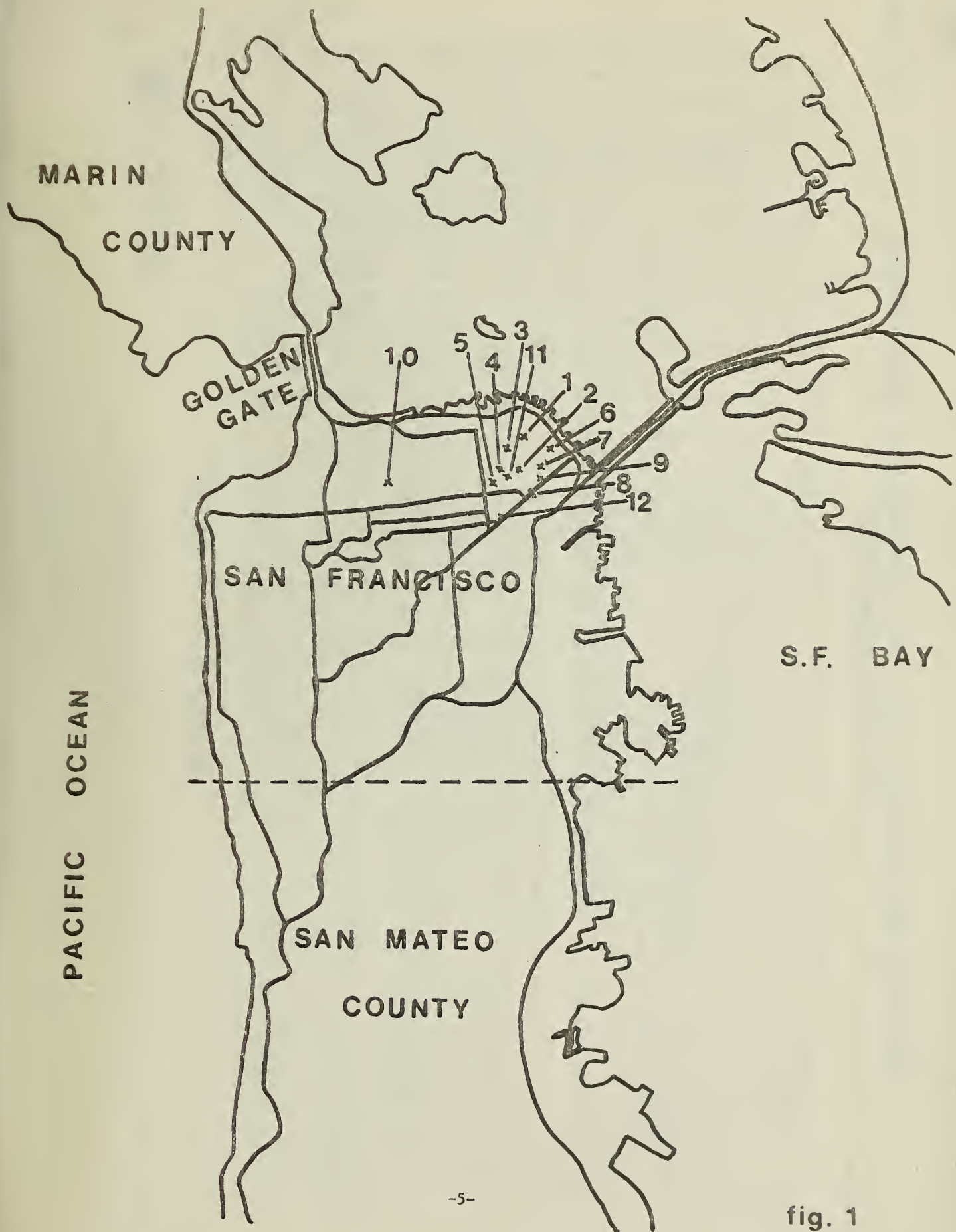


fig. 1

SUNRISE AND SUNSET AT SAN FRANCISCO, CALIFORNIA
PACIFIC STANDARD TIME

NO. 1044

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUNE		JULY		AUG.		SEPT.		OCT.		NOV.		DEC.	
	Rise A.M.	Set P.M.	Rise A.M.	Set P.M.	Rise A.M.	Set P.M.	Rise A.M.	Set P.M.	Rise A.M.	Set P.M.	Rise A.M.	Set P.M.	Rise A.M.	Set P.M.	Rise A.M.	Set P.M.	Rise A.M.	Set P.M.	Rise A.M.	Set P.M.	Rise A.M.	Set P.M.	Rise A.M.	Set P.M.
1	7 25	5 02	7 14	5 33	6 42	6 03	5 55	6 32	5 14	7 00	4 49	7 26	4 51	7 35	5 13	7 19	5 39	6 39	6 05	5 53	6 35	5 11	7 06	4 51
2	7 25	5 02	7 13	5 34	6 40	6 04	5 54	6 33	5 13	7 01	4 49	7 26	4 52	7 35	5 14	7 18	5 40	6 38	6 06	5 52	6 36	5 10	7 07	4 51
3	7 26	5 03	7 12	5 35	6 39	6 05	5 52	6 34	5 12	7 02	4 49	7 27	4 52	7 35	5 14	7 17	5 41	6 36	6 07	5 50	6 37	5 09	7 08	4 51
4	7 26	5 04	7 11	5 36	6 37	6 06	5 51	6 35	5 11	7 03	4 48	7 28	4 53	7 35	5 15	7 15	5 42	6 35	6 08	5 49	6 38	5 08	7 09	4 51
5	7 26	5 05	7 10	5 38	6 36	6 07	5 49	6 36	5 10	7 04	4 48	7 28	4 53	7 35	5 16	7 14	5 43	6 33	6 09	5 47	6 39	5 07	7 10	4 51
6	7 26	5 06	7 09	5 39	6 35	6 08	5 48	6 37	5 09	7 04	4 48	7 29	4 54	7 35	5 17	7 13	5 44	6 32	6 09	5 46	6 40	5 06	7 11	4 51
7	7 26	5 07	7 08	5 40	6 33	6 09	5 46	6 38	5 08	7 05	4 48	7 29	4 54	7 34	5 18	7 12	5 44	6 30	6 10	5 44	6 41	5 05	7 12	4 51
8	7 26	5 08	7 07	5 41	6 32	6 10	5 45	6 39	5 07	7 06	4 47	7 30	4 55	7 34	5 19	7 11	5 45	6 29	6 11	5 43	6 42	5 04	7 12	4 51
9	7 25	5 09	7 06	5 42	6 30	6 11	5 43	6 40	5 06	7 07	4 47	7 30	4 55	7 34	5 20	7 10	5 46	6 27	6 12	5 41	6 43	5 03	7 13	4 51
10	7 25	5 10	7 05	5 43	6 29	6 12	5 42	6 41	5 05	7 08	4 47	7 31	4 56	7 33	5 20	7 09	5 47	6 26	6 13	5 40	6 44	5 02	7 14	4 51
11	7 25	5 10	7 04	5 44	6 27	6 13	5 41	6 41	5 04	7 09	4 47	7 31	4 57	7 33	5 21	7 08	5 48	6 24	6 14	5 38	6 45	5 02	7 15	4 51
12	7 25	5 11	7 03	5 45	6 26	6 14	5 39	6 42	5 03	7 10	4 47	7 32	4 57	7 33	5 22	7 06	5 49	6 23	6 15	5 37	6 47	5 01	7 16	4 51
13	7 25	5 12	7 02	5 46	6 24	6 15	5 38	6 43	5 02	7 11	4 47	7 32	4 58	7 32	5 23	7 05	5 50	6 21	6 16	5 35	6 48	5 00	7 16	4 51
14	7 24	5 13	7 01	5 47	6 23	6 16	5 36	6 44	5 01	7 12	4 47	7 33	4 59	7 32	5 24	7 04	5 50	6 19	6 17	5 34	6 49	4 59	7 17	4 52
15	7 24	5 13	7 00	5 48	6 21	6 17	5 35	6 45	5 00	7 12	4 47	7 33	4 59	7 31	5 25	7 03	5 51	6 18	6 18	5 33	6 50	4 59	7 18	4 52
16	7 24	5 16	6 59	5 50	6 20	6 18	5 34	6 46	4 59	7 13	4 47	7 33	5 00	7 31	5 26	7 01	5 52	6 16	6 19	5 31	6 51	4 58	7 18	4 52
17	7 23	5 17	6 57	5 51	6 18	6 19	5 32	6 47	4 58	7 14	4 47	7 34	5 01	7 30	5 27	7 00	5 53	6 15	6 20	5 30	6 52	4 57	7 19	4 52
18	7 23	5 18	6 56	5 52	6 17	6 20	5 31	6 48	4 58	7 15	4 47	7 34	5 02	7 30	5 27	6 59	5 54	6 13	6 21	5 28	6 53	4 56	7 20	4 53
19	7 23	5 14	6 55	5 53	6 15	6 20	5 29	6 49	4 57	7 16	4 47	7 34	5 02	7 29	5 28	6 58	5 55	6 12	6 22	5 27	6 54	4 56	7 20	4 53
20	7 22	5 20	6 54	5 54	6 14	6 21	5 28	6 50	4 56	7 17	4 48	7 35	5 03	7 28	5 29	6 56	5 55	6 10	6 23	5 26	6 55	4 55	7 21	4 54
21	7 22	5 21	6 52	5 55	6 12	6 22	5 27	6 51	4 55	7 17	4 48	7 35	5 04	7 28	5 30	6 55	5 56	6 09	6 24	5 24	6 56	4 55	7 21	4 54
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23	7 20	5 23	6 50	5 57	6 09	6 24	5 24	6 52	4 54	7 19	4 48	7 35	5 05	7 26	5 32	6 52	5 58	6 05	6 26	5 22	6 58	4 54	7 22	4 55
24	7 20	5 24	6 48	5 58	6 08	6 25	5 23	6 53	4 53	7 20	4 49	7 35	5 06	7 25	5 33	6 51	5 59	6 04	6 27	5 21	6 59	4 53	7 23	4 56
25	7 19	5 25	6 47	5 59	6 06	6 26	5 21	6 54	4 53	7 21	4 49	7 35	5 07	7 25	5 33	6 49	6 00	6 02	6 28	5 19	7 00	4 53	7 23	4 56
26	7 19	5 26	6 46	6 00	6 04	6 27	5 20	6 55	4 52	7 21	4 49	7 36	5 08	7 24	5 34	6 48	6 01	6 01	6 29	5 18	7 01	4 52	7 24	4 57
27	7 18	5 28	6 44	6 01	6 03	6 28	5 19	6 56	4 52	7 22	4 50	7 36	5 09	7 23	5 35	6 47	6 01	5 59	6 30	5 17	7 02	4 52	7 24	4 58
28	7 17	5 29	6 43	6 02	6 01	6 29	5 18	6 57	4 51	7 23	4 50	7 36	5 09	7 22	5 36	6 45	6 02	5 58	6 31	5 16	7 03	4 52	7 24	4 58
29	7 16	5 30	6 43	6 03	6 00	6 30	5 17	6 58	4 51	7 24	4 50	7 36	5 10	7 21	5 37	6 44	6 03	5 56	6 32	5 15	7 04	4 52	7 25	4 59
30	7 16	5 31			5 58	6 31	5 15	6 59	4 50	7 24	4 51	7 36	5 11	7 20	5 38	6 42	6 04	5 55	6 33	5 14	7 05	4 51	7 25	5 00
31	7 15	5 32			5 57	6 31			4 50	7 25			5 12	7 19	5 39	6 41			6 34	5 12			7 25	5 01

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Normals, Means, And Extremes

Month	Temperatures °F				Normal Degree days Base 65 °F	Precipitation in inches				Relative humidity pct.				Wind				Mean number of days						Average station pressure mb.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Normal		Extremes			Cooling	Heating	Snow, ice pellets				Relative humidity pct.				Wind				Mean number of days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	Daily maximum	Daily minimum	Monthly highest	Record lowest				Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year		Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Lowest temperature 27° in December 1932; maximum monthly precipitation 24.36 in January 1862; maximum precipitation in 24 hours 4.67 in January 1881;
maximum monthly snowfall 3.7 in February 1887; maximum snowfall in 24 hours 3.7 in February 1887; Fastest mile of wind 51 from Northeast in December 1923 and earlier.

- (a) Length of record, years, through the
DATE OF AN EXTREME - The most recent in cases of multiple
based on January data only.
(b) 70° and above at Alaskan stations.
* Less than one half.
† Trace.
WIND DIRECTION - Numerals indicate tens of degrees clockwise
from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value
when the direction is in tens of degrees.
- % Through 1964. The station did not operate 24 hours daily.
Thunderstorm data therefore may be incomplete.
- c Through 1964.
\$ Through 1972.
@ Through 1973.

DAILY NORMALS OF TEMPERATURE AND HEATING AND COOLING DEGREE DAYS 1941-70

SAN FRANCISCO, CALIF FED OFF BLDG

JANUARY				FEBRUARY				MARCH				APRIL				MAY				JUNE										
DAY	TEMPERATURE			DEG DAY	TEMPERATURE			DEG DAY	TEMPERATURE			DEG DAY	TEMPERATURE			DEG DAY	TEMPERATURE			DEG DAY	TEMPERATURE			DEG DAY						
	MAX	MIN	AVG		MAX	MIN	AVG		MAX	MIN	AVG		MAX	MIN	AVG		MAX	MIN	AVG		MAX	MIN	AVG							
1	55	45	51	14	58	47	52	13	0	60	48	54	11	0	61	49	55	10	0	62	50	56	9	0	64	52	58	7	0	1
2	55	46	51	14	58	47	52	13	0	60	48	54	11	0	61	49	55	10	0	62	50	56	9	0	64	52	58	7	0	2
3	55	46	50	15	58	47	52	13	0	60	48	54	11	0	61	49	55	10	0	62	50	56	9	0	64	52	58	7	0	3
4	55	46	50	15	58	47	53	12	0	60	48	54	11	0	61	49	55	10	0	62	50	56	9	0	64	52	58	7	0	4
5	55	46	50	15	58	47	53	12	0	60	48	54	11	0	61	49	55	10	0	62	50	56	9	0	64	52	58	7	0	5
6	55	45	50	15	58	47	53	12	0	60	48	54	11	0	61	49	55	10	0	62	50	56	9	0	64	52	58	7	0	6
7	55	45	50	15	58	48	53	12	0	60	48	54	11	0	61	49	55	10	0	62	50	56	9	0	64	53	58	7	0	7
8	55	45	50	15	58	48	53	12	0	60	48	54	11	0	61	49	55	10	0	62	50	56	9	0	64	53	58	7	0	8
9	56	45	50	15	58	48	53	12	0	60	48	54	11	0	61	49	55	10	0	62	50	56	9	0	64	53	58	7	0	9
10	56	45	50	15	59	48	53	12	0	60	48	54	11	0	61	49	55	10	0	62	50	56	9	0	64	53	59	7	0	10
11	56	45	51	14	59	48	53	12	0	60	48	54	11	0	61	49	55	10	0	62	51	56	9	0	64	53	59	7	0	11
12	56	45	51	14	59	48	53	12	0	60	48	54	11	0	61	49	55	10	0	62	51	56	9	0	65	53	59	7	0	12
13	56	45	51	14	59	48	53	12	0	60	48	54	11	0	61	49	55	10	0	62	51	56	9	0	65	53	59	7	0	13
14	56	45	51	14	59	48	53	12	0	60	48	54	11	0	61	49	55	10	0	62	51	57	8	0	65	53	59	7	0	14
15	56	45	51	14	59	48	54	11	0	60	48	54	11	0	61	49	55	10	0	62	51	57	8	0	65	53	59	6	0	15
16	56	45	51	14	59	48	54	11	0	60	48	54	11	0	61	49	55	10	0	62	51	57	8	0	65	53	59	6	0	16
17	56	46	51	14	59	48	54	11	0	60	49	54	11	0	61	49	55	10	0	62	51	57	8	0	65	53	59	6	0	17
18	56	46	51	14	59	48	54	11	0	60	49	54	11	0	61	49	55	10	0	62	51	57	8	0	65	53	59	6	0	18
19	56	46	51	14	59	48	54	11	0	60	49	54	11	0	61	49	55	10	0	63	51	57	8	0	65	53	59	6	0	19
20	56	46	51	14	59	48	54	11	0	60	49	54	11	0	61	49	55	10	0	63	51	57	8	0	65	53	59	6	0	20
21	56	46	51	14	59	48	54	11	0	60	49	54	11	0	61	49	55	10	0	63	51	57	8	0	65	53	59	6	0	21
22	56	46	51	14	60	48	54	11	0	60	49	54	11	0	61	49	55	10	0	63	51	57	8	0	65	53	59	6	0	22
23	56	46	51	14	60	48	54	11	0	60	49	55	10	0	61	50	56	9	0	63	51	57	8	0	65	53	59	6	0	23
24	57	46	51	14	60	48	54	11	0	60	49	55	10	0	61	50	56	9	0	63	51	57	8	0	65	53	59	6	*	24
25	57	46	51	14	60	48	54	11	0	60	49	55	10	0	62	50	56	9	0	63	52	57	8	0	65	53	59	6	*	25
26	57	46	51	13	60	49	54	11	0	60	49	55	10	0	62	50	56	9	0	63	52	57	8	0	65	53	59	6	*	26
27	57	46	52	13	60	49	54	11	0	60	49	55	10	0	62	50	56	9	0	63	52	57	8	0	64	53	59	6	*	27
28	57	46	52	13	60	49	54	11	0	60	49	55	10	0	62	50	56	9	0	63	52	58	7	0	64	53	59	6	*	28
29	57	46	52	13	60	49	54	11	0	61	49	55	10	0	62	50	56	9	0	63	52	58	7	0	64	53	59	6	*	29
30	57	47	52	13	61	49	55	10	0	61	49	55	10	0	62	50	56	9	0	64	52	58	7	0	64	53	59	6	*	30
31	57	47	52	13	61	49	55	10	0	61	49	55	10	0	62	50	56	9	0	64	52	58	7	0	64	53	59	6	*	31

MONTHLY NORMALS
MAX 56.0
MIN 45.7
MEAN 50.9
HEATING 437
COOLING 0

MONTHLY NORMALS
MAX 58.9
MIN 47.9
MEAN 53.4
HEATING 325
COOLING 0

MONTHLY NORMALS
MAX 60.1
MIN 48.5
MEAN 54.3
HEATING 332
COOLING 0

MONTHLY NORMALS
MAX 61.2
MIN 49.3
MEAN 55.3
HEATING 291
COOLING 0

MONTHLY NORMALS
MAX 62.5
MIN 50.9
MEAN 56.7
HEATING 257
COOLING 0

MONTHLY NORMALS
MAX 64.5
MIN 52.8
MEAN 58.7
HEATING 194
COOLING 5

DAILY NORMALS OF TEMPERATURE AND HEATING AND COOLING DEGREE DAYS 1941-70

SAN FRANCISCO, CALIF

FED OFF BLDG

DAY	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER			DAY
	TEMPERATURE MAX MIN AVG	DEG DAY HDD CDD	TEMPERATURE MAX MIN AVG	DEG DAY HDD CDD	TEMPERATURE MAX MIN AVG	DEG DAY HDD CDD	TEMPERATURE MAX MIN AVG	DEG DAY HDD CDD	TEMPERATURE MAX MIN AVG	DEG DAY HDD CDD	TEMPERATURE MAX MIN AVG	DEG DAY HDD CDD	TEMPERATURE MAX MIN AVG	DEG DAY HDD CDD	TEMPERATURE MAX MIN AVG	DEG DAY HDD CDD	TEMPERATURE MAX MIN AVG	DEG DAY HDD CDD	
1	64 53 59	6 0	64 53 59	6 0	67 55 61	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	60 49 54	11 0	1
2	64 53 59	6 0	64 53 59	6 0	67 55 61	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	59 49 54	11 0	2
3	64 53 59	6 0	64 53 59	6 0	67 55 61	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	59 49 54	11 0	3
4	64 53 59	6 0	64 53 59	6 0	68 55 62	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	59 49 54	11 0	4
5	64 53 59	6 0	64 53 59	6 0	68 55 62	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	59 49 54	12 0	5
6	64 53 59	6 0	64 53 59	6 0	68 55 62	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	58 48 53	12 0	6
7	64 53 59	6 0	64 53 59	6 0	68 55 62	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	58 48 53	12 0	7
8	64 53 59	6 0	64 53 59	6 0	68 55 62	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	58 48 53	12 0	8
9	64 53 59	6 0	64 53 59	6 0	68 55 62	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	58 48 53	12 0	9
10	64 53 59	6 0	64 53 59	6 0	69 56 62	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	57 48 53	12 0	10
11	64 53 59	6 0	64 53 59	6 0	69 56 62	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	57 48 53	13 0	11
12	64 53 59	6 0	64 53 59	6 0	69 56 62	4 0	69 56 63	3 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	57 48 53	13 0	12
13	64 53 59	7 0	64 53 59	7 0	69 56 62	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	57 47 52	13 0	13
14	64 53 59	7 0	64 53 59	7 0	69 56 62	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	57 47 52	13 0	14
15	64 53 59	7 0	64 53 59	7 0	69 56 62	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	57 47 52	13 0	15
16	64 53 59	7 0	64 53 59	7 0	69 56 62	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	56 47 52	13 0	16
17	64 53 59	7 0	64 53 59	7 0	69 56 62	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	56 47 52	13 0	17
18	64 53 59	7 0	64 53 59	7 0	69 56 62	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	56 47 51	14 0	18
19	64 53 59	7 0	64 53 59	7 0	69 56 62	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	56 47 51	14 0	19
20	64 53 59	7 0	64 53 59	7 0	69 56 62	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	56 47 51	14 0	20
21	64 53 59	7 0	64 53 59	7 0	69 56 62	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	56 46 51	14 0	21
22	64 53 59	7 0	64 53 59	7 0	69 56 62	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	56 46 51	14 0	22
23	63 53 58	7 0	63 53 58	7 0	70 56 63	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	56 46 51	14 0	23
24	63 53 58	7 0	63 53 58	7 0	70 56 63	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	56 46 51	14 0	24
25	63 53 58	7 0	63 53 58	7 0	70 56 63	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	56 46 51	14 0	25
26	63 54 58	7 0	63 54 58	7 0	70 56 63	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	56 46 51	14 0	26
27	63 54 58	7 0	63 54 58	7 0	70 56 63	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	55 46 51	14 0	27
28	63 54 58	7 0	63 54 58	7 0	70 56 63	3 1	69 56 63	4 1	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	66 53 60	6 0	55 46 51	14 0	28
29	64 54 59	6 0	64 54 59	6 0	69 55 62	3 1	69 55 62	3 1	67 54 60	5 0	67 54 60	5 0	60 50 55	10 0	60 50 55	10 0	55 46 51	14 0	29
30	64 54 59	6 0	64 54 59	6 0	69 55 62	3 1	69 55 62	3 1	67 54 60	5 0	67 54 60	5 0	60 49 55	10 0	60 49 55	10 0	55 46 51	14 0	30
31	64 54 59	6 0	64 54 59	6 0	66 53 60	5 0	66 53 60	5 0	66 53 60	5 0	66 53 60	5 0	66 53 60	5 0	66 53 60	5 0	55 46 51	14 0	31

MONTHLY NORMALS	MONTHLY NORMALS	MONTHLY NORMALS	MONTHLY NORMALS	MONTHLY NORMALS	MONTHLY NORMALS
MAX 63.8	MAX 64.8	MAX 68.8	MAX 68.2	MAX 63.2	MAX 56.8
MIN 53.2	MIN 54.0	MIN 55.5	MIN 54.6	MIN 51.5	MIN 47.2
MEAN 58.5	MEAN 59.4	MEAN 61.4	MEAN 61.4	MEAN 57.4	MEAN 52.0
HEATING 202	HEATING 177	HEATING 102	HEATING 127	HEATING 233	HEATING 403
COOLING 0	COOLING 0	COOLING 16	COOLING 16	COOLING 0	COOLING 0

09/07/73

TEMPERATURE DATA

CATEGORY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
WARMEST MONTH-AVERAGE MAXIMUM TEMP	61.0 1. 1948	64.0 1924	66.2 1934	68.4 1926	69.5 1931	71.0 1929	70.0 1931	59.3 1891	75.0 1958	73.0 1959	68.8 1929	63.8 1958	65.6 1926
1875-Date	60.3 2. 1976	63.9 1963	68.0 1926	67.3 1931	68.5 1926	69.7 1935	68.6 1926	68.5 1913	74.1 1939	72.5 1965	68.2 1932	61.3 1953	65.5 1934
1875-Date	59.3 3. 1953	63.4 1970*	66.5 1931	66.5 1936*	68.4 1936	69.3 1921	68.2 1929	68.4 1915	73.1 1970	72.5 1967	68.1 1933*	61.0 1940	65.0 1959*
WARMEST MONTH-AVERAGE TEMP	54.8 1. 1972	58.4 1963	60.6 1934	59.2 1930	61.8 1931	63.0 1929	62.3 1931	62.3 1968	66.8 1958	65.5 1967	61.1 1950	57.5 1958	58.9 1934
2. 1948	54.7 1970	57.4 1970	60.6 1926	59.0 1931	61.5 1936	62.5 1958	61.6 1885	62.1 1913	66.2 1939	65.2 1959	60.9 1926	55.8 1969	58.8 1958
1875-Date	54.4 3. 1953	57.0 1924	59.0 1931	59.0 1934	61.2 1941	62.4 1888	61.5 1929	62.5 1976	65.0 1940	65.0 1965	60.8 1923	55.4 1940	58.8 1926
COLDEST MONTH-AVERAGE MINIMUM TEMP	38.6 1. 1937	42.6 1903	43.9 1897	45.6 1901	46.9 1899	48.6 1908	49.3 1901	50.6 1955	50.7 1910	50.8 1916	47.2 1916	41.9 1932	48.5 1893
2. 1949	38.8 1949	43.3 1949	44.3 1917	46.2 1967	48.0 1898	49.2 1901	50.0 1893	50.9 1893	51.3 1899	51.0 1971	47.7 1897	42.6 1908	48.7 1908
1875-Date	40.8 3. 1917	43.5 1894	44.8 1894	46.3 1891	48.1 1909	49.3 1893	50.3 1899	50.9 1910	52.2 1955	51.1 1949	47.8 1931	42.8 1972	48.8 1898
COLDEST MONTH-AVERAGE TEMP	43.6 1. 1937	47.8 1887	38.9 1897	50.8 1967	52.6 1898	55.0 1911	55.6 1901	56.4 1955	57.6 1910	56.6 1881	53.1 1897	47.0 1908	54.3 1893
2. 1949	44.7 1949	48.3 1949	49.2 1911	51.6 1896	52.6 1899	55.4 1908	55.9 1899	56.4 1901	58.2 1899	56.9 1916	53.2 1882	47.2 1972	54.6 1898
1875-Date	46.2 3. 1890	48.4 1894	49.3 1880	51.8 1901	53.4 1964	55.9 1910*	56.0 1962	56.5 1911*	58.3 1962*	57.6 1893	53.4 1896	47.4 1932	54.9 1880

*Last of several occurrences.

TEMPERATURE DATA

CATEGORY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
ABSOLUTE	79	80	86	89	97	101	99	92	101	96	84	86	101
MAXIMUM	1962	1899	1914	1926	1887	1961	1931	1891	1971*	1917	1955	1958	Sep 71
1871-Date													
ABSOLUTE	29	33	33	40	42	46	47	46	47	43	38	27	27
MINIMUM	1888	1887	1896	1891	1906	1908	1953*	1903	1900	1935	1919	1932	Dec 32
1871-Date													
LOWEST	39	42	45	48	51	53	55	54	54	52	48	35	35
MAXIMUM	1888	1889	1896	1875	1950*	1911	1970*	1954	1910	1899	1896	1932	Dec 32
1875-Date													
HIGHEST	60	60	67	68	69	70	66	70	75	69	66	63	75
MINIMUM	1970*	1930	1914	1947	1943	1949*	1905	1894	1904	1961	1945	1937	Sep 04
1875-Date													

*Last of several occurrences.

TEMPERATURE EXTREMES

TEN HOTTEST DAYS 1871-Jun 1977

1.	101°	8 Sep 1904
2.	101°	16 Sep 1913
3.	101°	14 Jun 1961
4.	101°	14 Sep 1971
5.	100°	29 Jun 1891
6.	100°	7 Sep 1904
7.	100°	9 Sep 1932
8.	99°	21 Sep 1928
9.	99°	3 Jul 1931
10.	99°	13 Sep 1971

TEN COLDEST DAYS 1871-Jun 1977

1.	27°	11 Dec 1932	
2.	29°	14 Jan 1888	
3.	29°	15 Jan 1888	
4.	30°	8 Jan 1937	
5.	30°	21 Jan 1937	
6.	30°	9 Dec 1972	
7.	31°	12 Dec 1932	
8.	31°	16 Jan 1888	
9.	32°	10 Jan 1972	*
10.			

*Last of several occurrences

LONGEST HOT PERIODS

1875 - June 1977

CONSECUTIVE DAYS	NO.	DATES	TEMPERATURES OF PERIOD									
90° OR ABOVE	4	6 Sep - 9 Sep 1904	92°	100°	101°	90°						
	4	20 Sep - 23 Sep 1939	97°	97°	97°	96°						
	3	20 Jun - 22 Jun 1929	90°	95°	94°							
	3	13 Sep - 16 Sep 1971	99°	101°	94°							
85° OR ABOVE	8	16 Sep - 23 Sep 1939	86°	87°	88°	89°	97°	97°	97°	96°		
	5	12 Sep - 16 Sep 1909	86°	90°	89°	93°	92°					
	5	8 Jun - 12 Jun 1877	87°	88°	86°	92°	88°					
	5	24 Sep - 28 Sep 1970	86°	87°	92°	89°	87°					
80° OR ABOVE	8	16 Sep - 23 Sep 1939	86°	87°	88°	89°	97°	97°	97°	96°		
	6	24 Sep - 29 Sep 1970	86°	87°	92°	89°	87°	87°				
	6	11 Oct - 16 Oct 1959	81°	83°	87°	84°	82°	88°				
	6	11 Sep - 16 Sep 1909	82°	86°	90°	89°	93°	92°				
	6	18 Oct - 23 Oct 1887	82°	86°	87°	84°	80°	80°				
	6	24 Oct - 29 Oct 1890	82°	82°	83°	86°	86°	84°				
75° OR ABOVE	10	20 Oct - 29 Oct 1890	76°	82°	76°	77°	82°	82°	83°	86°	86°	84°
	9	15 Sep - 23 Sep 1939	79°	86°	87°	88°	89°	97°	97°	97°	96°	
	9	10 Oct - 18 Oct 1912	76°	76°	78°	79°	80°	80°	75°	76°	76°	
	8	27 Oct - 3 Nov 1930	75°	76°	78°	76°	79°	79°	79°	75°		
	7	20 Oct - 26 Oct 1965	77°	85°	83°	88°	90°	86°	76°	Last of		
										many occurrences.		

LONGEST COLD PERIODS

1875 - June 1977

CONSECUTIVE DAYS	NO.	DATES	TEMPERATURES OF PERIOD
32° OR BELOW	4	14 Jan - 17 Jan 1888	29° 29° 31° 32°
	2	9 Dec - 10 Dec 1972	30° 32°
	2	8 Jan - 9 Jan 1937	30° 32°
	2	20 Jan - 21 Jan 1937	32° 30°
	2	11 Dec - 12 Dec 1932	27° 31°
25° OR BELOW	4	8 Dec - 11 Dec 1972	34° 30° 32° 34°
	4	14 Jan - 17 Jan 1888	29° 29° 31° 32°
	4	9 Dec - 12 Dec 1932	34° 33° 27° 31°
	3	9 Jan - 11 Jan 1949	35° 32° 33° Last of several occurrences
40° OR BELOW	10	7 Jan - 16 Jan 1929	30° 40° 38° 40° 38° 36° 37° 40° 40°
	10	19 Jan - 28 Jan 1949	40° 38° 40° 39° 35° 36° 38° 36° 39°
	10	7 Dec - 16 Dec 1972	38° 34° 30° 32° 34° 36° 35° 36° 40°
	9	19 Jan - 27 Jan 1937	37° 32° 30° 34° 36° 30° 36° 40° 38°
	8	31 Dec - 7 Jan 1961	40° 39° 40° 37° 37° 35° 35° 37° Last of several occurrences
		1960	
45° OR BELOW	63	19 Dec - 19 Feb 1949	Too numerous to list
	44	15 Dec - 27 Jan 1917	Too numerous to list
	39	27 Dec - 3 Feb 1937	Too numerous to list
		1936	

JANUARY

DAY	RECORD		RECORD	LATEST	RECORD		LATEST	RECORD		LATEST
	MAX	YEAR	MIN	YEAR	HIGH	MIN	YEAR	LOW	MAX	YEAR
1	63	1881	37	1919*	55		1940	44		1920
2	63	1964	37	1924*	54		1948	42		1910
3	63	1914*	36	1950*	53		1927	43		1924
4	67	1934	35	1950	55		1948	44		1974
5	70	1887	35	1961*	54		1965*	41		1913
6	73	1887	33	1912	56		1887	43		1961
7	68	1911	34	1937	53		1941*	42		1968
8	79	1962	30	1937	57		1940	42		1937
9	73	1962	32	1937	57		1962	40		1913
10	68	1932	32	1949	56		1959	41		1949
11	66	1920	33	1949	55		1959	43		1947*
12	67	1948	36	1929*	54		1970*	45		1937
13	67	1967*	35	1949	56		1970	45		1929
14	66	1967*	29	1888	56		1909	40		1888
15	68	1966	29	1888	56		1909	39		1888
16	70	1920	31	1888	56		1970	43		1917
17	70	1920	32	1888	55		1970*	45		1907
18	70	1920	34	1922	56		1896	44		1922*
19	70	1976*	32	1922	57		1969	44		1883
20	68	1976*	32	1937	56		1969	41		1937
21	71	1976*	30	1937	60		1970	43		1937
22	74	1968	34	1962*	58		1970	44		1937
23	75	1948	35	1949	53		1970*	45		1969*
24	74	1948	36	1949*	55		1886	47		1954*
25	74	1899	36	1937	55		1942	46		1893
26	78	1899	36	1949	60		1899	46		1893
27	75	1899	37	1937*	58		1899	46		1968
28	69	1899	36	1957	55		1936	45		1969
29	71	1899	36	1922	57		1967	42		1922
30	72	1899	36	1923	58		1881	45		1923
31	73	1976*	37	1917	56		1963	46		1971

RECORD TEMPERATURES SINCE 1875

FEBRUARY

DAY	RECORD			RECORD			RECORD		
	MAX	LATEST	RECORD	LATEST	HIGH	LATEST	LOW	LATEST	YEAR
		YEAR	MIN	YEAR	MIN	YEAR	NAX	YEAR	
1	70	1976*	36	1950*	58	1963	47	1932	
2	71	1976*	35	1932	57	1963	45	1883	
3	71	1906	35	1883	58	1963	44	1883	
4	71	1963	34	1899	58	1963	42	1899	
5	71	1917	33	1887	55	1940*	43	1976*	
6	69	1917	38	1887*	58	1963	44	1883	
7	72	1963	35	1929*	56	1960	46	1929*	
8	70	1952	38	1920*	56	1963	48	1939*	
9	67	1970*	38	1901	56	1970	46	1939	
10	70	1886	38	1894	57	1941	48	1923	
11	70	1889	36	1884	56	1970	44	1884	
12	75	1889	36	1884	57	1879	46	1884	
13	74	1930	36	1884	54	1936*	48	1884	
14	78	1930	37	1949	57	1930	47	1884	
15	76	1930	37	1903	60	1930	50	1894*	
16	75	1930	38	1956*	55	1899	48	1921	
17	75	1939*	38	1880	57	1878	46	1882	
18	80	1899	39	1890	55	1968*	46	1882	
19	75	1964	38	1897*	56	1968*	47	1890*	
20	73	1965	38	1897	58	1943	48	1918*	
21	76	1888	36	1890	56	1936*	47	1890	
22	76	1888	38	1890	56	1888	49	1880	
23	73	1947	38	1890	55	1968	50	1969*	
24	75	1947	40	1891	57	1957	50	1913	
25	76	1888	38	1887	58	1968	51	1951*	
26	75	1932	37	1962	58	1926	47	1951	
27	75	1932	38	1962*	57	1940*	45	1911	
28	75	1901	36	1951	56	1925	46	1911	
29	71	1936	42	1888	54	1968	54	1920*	

MARCH

DAY	RECORD			LATEST YEAR	RECORD			LATEST YEAR	RECORD			LATEST YEAR
	MAX	MIN	YEAR		MAX	MIN	YEAR		MAX	MIN	YEAR	
1	77	39	1936	1966*	56	1925	46	1896				
2	76	36	1936*	1896	60	1936	45	1896				
3	81	33	1929	1896	59	1901	47	1896				
4	76	37	1959*	1896	58	1901	49	1903*				
5	77	40	1901	1918*	57	1884	46	1908				
6	78	39	1892	1956	57	1885	48	1897				
7	80	40	1892	1897	60	1892	49	1974				
8	78	41	1892	1952*	58	1934*	50	1893				
9	80	40	1934	1893	56	1943*	48	1876				
10	77	40	1916	1922	58	1934	50	1913*				
11	81	35	1934	1922	56	1905*	49	1954*				
12	76	40	1926	1897	56	1905*	50	1969				
13	78	40	1926	1875*	56	1941*	49	1881				
14	78	38	1926	1942	57	1878	50	1893				
15	80	41	1972	1917*	55	1941	48	1906				
16	85	40	1914	1898	60	1914	47	1898				
17	85	42	1914	1898*	67	1914	50	1898*				
18	86	41	1914	1898*	63	1914	52	1954*				
19	80	40	1914	1894	56	1916*	49	1882				
20	78	40	1915	1904	55	1878	51	1954*				
21	81	41	1915	1935*	58	1915	47	1909				
22	83	42	1926	1907	59	1876	46	1913				
23	82	41	1926	1913	57	1876	50	1904*				
24	82	40	1926	1913	58	1969*	50	1904				
25	83	38	1952	1907	57	1928	49	1907*				
26	82	40	1930*	1907	63	1952	51	1907				
27	84	42	1923	1898	65	1930	52	1892				
28	78	42	1923*	1897	58	1934	53	1967*				
29	78	39	1911	1897	57	1906*	51	1897*				
30	79	42	1911	1905*	59	1916	50	1967				
31	79	42	1889	1892	57	1970*	51	1898				

RECORD TEMPERATURES SINCE 1875

APRIL

DAY	RECORD			RECORD			RECORD		
	MAX	LATEST	MIN	LATEST	HIGH	LATEST	LOW	LATEST	YEAR
1	77	1959	43	1976*	57	1889	52	1902	
2	82	1933	43	1955	60	1959	53	1955*	
3	79	1961*	44	1921	57	1961	51	1901	
4	80	1960	41	1875	57	1961	52	1975	
5	80	1924	41	1875	58	1924	48	1875	
6	86	1924	40	1929*	57	1926*	51	1875	
7	81	1939	40	1891*	56	1957*	50	1975*	
8	80	1904	40	1891	59	1885	52	1953*	
9	83	1904	43	1965	59	1904*	50	1965	
10	84	1904	40	1927	61	1885	51	1965*	
11	84	1898	40	1967	61	1904	51	1922	
12	87	1898	42	1911	68	1957	52	1922	
13	84	1947	43	1883	60	1947	52	1970*	
14	88	1888	44	1921*	57	1947	51	1896	
15	84	1966	43	1896	57	1966*	51	1951*	
16	77	1966*	43	1917*	56	1925	53	1963*	
17	79	1954	42	1880	58	1923	52	1955*	
18	83	1914	42	1955*	59	1918	52	1967*	
19	82	1950 ¹	41	1896 ¹	62	1918	51	1896	
20	84	1931 ¹	42	1963 ¹	57	1965*	52	1971*	
21	80	1927	42	1967 ¹	56	1973*	52	1908	
22	86	1910	44	1901	56	1926	54	1975*	
23	87	1910	43	1899	61	1910	51	1899	
24	85	1926*	43	1899	57	1913	53	1955*	
25	89	1926	44	1892	61	1926	52	1922	
26	85	1965	44	1955*	59	1935	51	1955	
27	86	1921	42	1894	58	1921	51	1970	
28	85	1957*	43	1906	60	1876	50	1948	
29	77	1974*	46	1967*	57	1977*	53	1971	
30	83	1916	45	1964*	60	1916	51	1899	

¹ Record missing in 1906 due to earthquake.

RECORD TEMPERATURES SINCE 1875

MAY

DAY	RECORD			RECORD			RECORD		
	MAX	LATEST	YEAR	MIN	LATEST	YEAR	HIGH	LATEST	YEAR
1	86	1947	1947	43	1899	1899	60	1947	1947
2	83	1925	1925	44	1921	1921	56	1943*	1943*
3	79	1935	1935	44	1950	1950	60	1935	1935
4	84	1935	1935	45	1975*	1975*	65	1935	1935
5	81	1953	1953	46	1965*	1965*	60	1953	1953
6	85	1949	1949	44	1964	1964	67	1949	1949
7	81	1967*	1967*	45	1879	1879	60	1936	1936
8	88	1931	1931	46	1964*	1964*	63	1943	1943
9	88	1931	1931	44	1922	1922	59	1936	1936
10	89	1941	1941	46	1920*	1920*	64	1941	1941
11	89	1895	1895	46	1909*	1909*	61	1895	1895
12	96	1976	1976	45	1882*	1882*	63	1895	1895
13	87	1927	1927	45	1882	1882	65	1976*	1976*
14	87	1922	1922	44	1899	1899	59	1890	1890
15	91	1970	1970	44	1899	1899	63	1970	1970
16	91	1956	1956	42	1906	1906	62	1956	1956
17	80	1892	1892	46	1899*	1899*	56	1926*	1926*
18	88	1892	1892	46	1901*	1901*	59	1931	1931
19	90	1931*	1931*	45	1876	1876	68	1931	1931
20	88	1942	1942	43	1899	1899	64	1941	1941
21	86	1886	1886	45	1899	1899	59	1892	1892
22	85	1943	1943	44	1909	1909	69	1943	1943
23	91	1943	1943	47	1909*	1909*	59	1958*	1958*
24	88	1927	1927	56	1911	1911	61	1890	1890
25	87	1951*	1951*	47	1953*	1953*	60	1883	1883
26	91	1896	1896	47	1918*	1918*	63	1896	1896
27	85	1933	1933	47	1911*	1911*	60	1880	1880
28	97	1887	1887	47	1911*	1911*	60	1975*	1975*
29	93	1975*	1975*	46	1893	1893	64	1924	1924
30	90	1910	1910	47	1916*	1916*	59	1924	1924
31	87	1912	1912	47	1971	1971	63	1880	1880

RECORD TEMPERATURES SINCE 1875

JUNE

DAY	RECORD			RECORD			RECORD		
	MAX	LATEST	YEAR	MIN	LATEST	YEAR	HIGH	LATEST	YEAR
1	88	1919		47	1955*		60	1960*	
2	95	1960		47	1900*		60	1960*	
3	90	1893		47	1909*		70	1949	
4	92	1949		46	1908		65	1904	
5	95	1883		47	1908		64	1883	
6	96	1903		47	1917		70	1883	
7	82	1973		47	1917*		60	1958*	
8	92	1973		46	1917		65	1877	
9	88	1877		47	1893		62	1877	
10	86	1877		47	1901*		63	1921*	
11	92	1877		47	1911*		62	1877	
12	93	1876		48	1908*		64	1877	
13	91	1966		47	1916*		60	1960	
14	101	1961		46	1917		64	1961	
15	89	1976*		47	1917*		61	1961*	
16	90	1943		48	1916*		62	1876	
17	86	1957*		47	1901*		59	1958	
18	86	1895		47	1908		60	1945	
19	92	1920		47	1893		62	1895	
20	93	1973		47	1901		61	1929	
21	95	1929		48	1911*		68	1929	
22	94	1929		48	1911*		61	1929	
23	94	1909		48	1908*		63	1909	
24	95	1976*		47	1908		70	1976	
25	90	1976*		48	1908*		69	1976	
26	89	1973		48	1917*		63	1976	
27	94	1976*		48	1917*		61	1976	
28	92	1891		48	1917		60	1942	
29	100	1891		48	1919*		64	1927	
30	93	1927		47	1908		67	1891	

RECORD TEMPERATURES SINCE 1875

JULY

DAY	RECORD			RECORD			RECORD		
	MAX	LATEST	MIN	LATEST	HIGH	MIN	LATEST	LOW	LATEST
		YEAR		YEAR			YEAR	MAX	YEAR
1	89	1898	48	1908	60		1891	56	1956*
2	92	1970	38	1949*	62		1970*	57	1965*
3	99	1931	47	1919*	62		1931*	56	1965*
4	95	1931*	47	1953	64		1931	56	1898
5	82	1921*	48	1965*	60		1931*	55	1970
6	94	1921*	47	1953	61		1921	56	1970*
7	98	1905	48	1910	66		1905	55	1962
8	79	1921*	48	1953*	62		1905	56	1962
9	84	1959	47	1953	58		1885	56	1951
10	92	1959	47	1953*	60		1884	56	1951*
11	90	1913	48	1897	62		1913	56	1944*
12	82	1897	48	1903	64		1931	57	1912*
13	88	1972	48	1901	60		1972	58	1951*
14	92	1972	48	1902	59		1972*	56	1899
15	93	1888	47	1901	58		1888*	55	1899
16	82	1935*	48	1919	62		1888*	57	1903*
17	82	1961	49	1903*	58		1972*	57	1905
18	84	1916	48	1899*	58		1942*	56	1903
19	81	1961	49	1969*	58		1925*	57	1905
20	84	1917	38	1894	58		1925*	56	1901*
21	88	1917	48	1901*	58		1972*	57	1944*
22	81	1917*	48	1894	58		1945	57	1967
23	78	1917	49	1890*	58		1946	56	1968*
24	78	1974*	49	1959*	58		1969*	57	1971*
25	82	1973	49	1933	60		1946	57	1892
26	88	1963	49	1968*	60		1902	57	1893
27	82	1923	49	1968*	61		1947	55	1919
28	84	1954	48	1897	59		1954	56	1966
29	82	1935	48	1903*	58		1958	55	1952
30	84	1930	48	1901*	60		1884	57	1943*
31	79	1966	47	1893	58*		1977	54	1898

RECORD TEMPERATURES SINCE 1875

AUGUST

DAY	RECORD			RECORD			RECORD		
	MAX	LATEST	YEAR	MIN	LATEST	YEAR	HIGH	LATEST	YEAR
1	83	1914	1955*	48	1916	1961	60	1879	1954*
2	83	1946	1910*	49	1916*	1961	60	1879	1967*
3	73	1938	1910*	48	1910*	1971	58	1976*	1910
4	83	1947	1903*	48	1903	1972*	59	1976	1908
5	78	1964	1893*	48	1903*	1939*	57	1976*	1911
6	86	1913	1916	48	1916	1961	61	1961	1911*
7	78	1891	1916*	48	1916*	1961	59	1961	1909
8	79	1975*	1903	46	1903	1971	59	1971	1951*
9	85	1970	1903	48	1903	1972*	58	1972*	1955*
10	81	1940	1903*	48	1903*	1939*	58	1939*	1951*
11	85	1935	1893	48	1893	1941*	60	1941*	1955*
12	84	1959	1893	48	1893	1965*	59	1965*	1954
13	81	1965	1903	49	1903	1965*	59	1965*	1924*
14	81	1885	1969	48	1969	1968*	58	1968*	1955
15	87	1950	1955*	59	1955*	1959	59	1959	1944*
16	82	1933*	1955*	49	1955*	1933	60	1933	1894
17	92	1892	1844	49	1844	1976*	60	1976*	1894
18	88	1934	1898	48	1898	1883	60	1883	1901
19	81	1950	1955	48	1955	1976*	62	1976*	1970*
20	84	1916	1955*	49	1955*	1972	60	1972	1970
21	84	1891	1898	47	1898	1891	64	1891	1907
22	92	1891	1970*	50	1970*	1976	66	1976	1904
23	89	1931	1894	50	1894	1959	64	1959	1955*
24	88	1931	1911	50	1911	1915*	59	1915*	1955*
25	86	1894	1955*	50	1955*	1971*	58	1971*	1887
26	91	1894	1955*	50	1955*	1894	65	1894	1895
27	87	1894	1955	49	1955	1894	70	1894	1946
28	86	1915	1955	49	1955	1954	64	1954	1970*
29	96	1968	1955	48	1955	1968*	62	1968*	1970*
30	89	1879	1911	49	1911	1968*	60	1968*	1909
31	87	1943	1910	48	1910	1947	62	1947	1909

RECORD TEMPERATURES SINCE 1875

SEPTEMBER

DAY	RECORD		LATEST	RECORD		LATEST	RECORD		LATEST
	MAX	YEAR		MIN	YEAR		HIGH	MIN	
1	90	1952	1910	48	1910	1941*	61		57
2	88	1889	1910	49	1910	1889	63		57
3	92	1961	1928*	50	1928*	1961	70		56
4	90	1961	1910*	50	1910*	1961	64		56
5	87	1923	1904	49	1904	1949	60		56
6	92	1904	1920*	50	1920*	1958*	63		57
7	100	1904	1910*	50	1910*	1904	67		55
8	101	1904	1946*	50	1946*	1904	75		58
9	100	1932	1946	50	1946	1904	66		57
10	92	1914	1970*	50	1970*	1886	61		58
11	88	1924*	1970*	50	1970*	1924*	62		58
12	89	1971*	1970	49	1970	1940*	63		58
13	99	1971	1933	50	1933	1953	64		58
14	101	1971	1933*	50	1933*	1971	72		56
15	94	1971*	1910	49	1910	1971	65		58
16	101	1913	1910	50	1910	1913	68		59
17	92	1877	1901*	50	1901*	1877	65		57
18	94	1912	1960*	49	1960*	1912	69		56
19	93	1919	1960*	49	1960*	1946	64		57
20	97	1939	1917*	49	1917*	1939	69		56
21	99	1828	1899*	50	1899*	1939	74		59
22	97	1939	1910	48	1910	1939	70		58
23	96	1939	1899	48	1899	1964	65		59
24	96	1964*	1962*	50	1962*	1889	67		56
25	93	1954	1910*	50	1910*	1954	66		56
26	92	1970*	1955	48	1955	1970	64		57
27	92	1921	1955*	47	1955*	1945	70		54
28	95	1966	1968*	49	1968*	1966*	65		57
29	90	1966	1952*	49	1952*	1904	69		56
30	89	1952	1900	47	1900	1913	61		58

RECORD TEMPERATURES SINCE 1875

OCTOBER

DAY	RECORD LATEST		RECORD LATEST		RECORD HIGH		RECORD LATEST		RECORD LOW		RECORD LATEST	
	MAX	YEAR	MIN	YEAR	MIN	YEAR	YEAR	YEAR	MAX	YEAR	MAX	YEAR
1	90	1913	49	1950	62	1965	1965	1965	57	1916	57	1916
2	86	1964	49	1955*	65	1941	1941	1941	58	1880	58	1880
3	96	1917	50	1954*	63	1907	1907	1907	58	1970*	58	1970*
4	90	1907	48	1916*	66	1906	1906	1906	58	1970	58	1970
5	92	1933	48	1908	66	1906	1906	1906	57	1924*	57	1924*
6	92	1930	48	1908	64	1930	1930	1930	59	1964*	59	1964*
7	89	1910	48	1955*	63	1937	1937	1937	59	1973	59	1973
8	94	1899	48	1895*	64	1899	1899	1899	57	1912	57	1912
9	87	1934	48	1906	66	1887	1887	1887	55	1906	55	1906
10	87	1887	48	1890	63	1905	1905	1905	56	1894	56	1894
11	90	1939	48	1890*	61	1959	1959	1959	56	1890	56	1890
12	91	1976*	48	1924*	64	1974*	1974*	1974*	54	1908	54	1908
13	87	1959	46	1899*	63	1918	1918	1918	52	1899	52	1899
14	89	1961*	45	1881	65	1961	1961	1961	54	1881	54	1881
15	94	1961	47	1892	69	1961	1961	1961	55	1909	55	1909
16	89	1933	47	1892	64	1967	1967	1967	56	1949*	56	1949*
17	89	1974	47	1892	63	1974*	1974*	1974*	58	1905*	58	1905*
18	88	1933	47	1949	61	1940*	1940*	1940*	56	1949	56	1949
19	90	1913	48	1893	66	1910	1910	1910	57	1949*	57	1949*
20	87	1887	45	1949	61	1964*	1964*	1964*	56	1895	56	1895
21	89	1929	47	1892	62	1964	1964	1964	57	1916	57	1916
22	90	1929	47	1849	63	1965*	1965*	1965*	56	1952	56	1952
23	88	1965	45	1849	67	1959	1959	1959	55	1913	55	1913
24	90	1965	48	1949*	65	1965	1965	1965	55	1896	55	1896
25	86	1965*	48	1949*	66	1965	1965	1965	56	1882	56	1882
26	86	1917	47	1893	62	1879	1879	1879	56	1896	56	1896
27	86	1890	47	1908*	62	1879	1879	1879	56	1946	56	1946
28	86	1890	47	1971	60	1879	1879	1879	53	1893	53	1893
29	84	1939*	46	1951*	60	1973*	1973*	1973*	53	1906	53	1906
30	84	1949	46	1935	62	1973*	1973*	1973*	53	1971	53	1971
31	83	1966	43	1935	60	1966	1966	1966	56	1965*	56	1965*

RECORD TEMPERATURES SINCE 1875

NOVEMBER

DAY	RECORD			RECORD			RECORD		
	MAX	LATEST	MIN	LATEST	HIGH	LATEST	LOW	LATEST	YEAR
1	86	1966	42	1935	59	1967*	53	1935	1935
2	83	1967	45	1935	63	1966	51	1935	1935
3	82	1950*	42	1935	67	1950	54	1935*	1935*
4	80	1949*	42	1935	60	1976*	53	1897	1897
5	78	1976*	43	1935	59	1880	52	1895	1895
6	80	1931	45	1920*	60	1941	55	1966	1966
7	82	1955	44	1971	61	1885	52	1920	1920
8	84	1955	46	1897	62	1885	54	1920	1920
9	78	1955	47	1915*	58	1950*	55	1951*	1951*
10	82	1955	45	1911	60	1976	54	1919*	1919*
11	79	1930	42	1911	59	1930	54	1911	1911
12	79	1900	43	1919	58	1900	54	1879	1879
13	80	1933	44	1938*	60	1967*	52	1955	1955
14	76	1906	43	1955	59	1967	50	1955	1955
15	78	1923	44	1958*	58	1976*	53	1958	1958
16	83	1895	43	1958	62	1895	52	1955*	1955*
17	82	1932	44	1958*	65	1932	51	1881	1881
18	81	1932	45	1930*	63	1932	52	1881	1881
19	77	1936*	44	1964*	60	1895	54	1900*	1900*
20	72	1939*	41	1961	61	1950	54	1946*	1946*
21	72	1962*	44	1880	60	1950	52	1931	1931
22	76	1959	42	1931	58	1959*	50	1973	1973
23	75	1959*	39	1931	58	1959	52	1931*	1931*
24	74	1959	41	1906	58	1956	50	1954	1954
25	76	1975	42	1892	56	1958	50	1892	1892
26	77	1959	41	1919	58	1959	51	1896	1896
27	72	1954*	38	1919*	58	1932*	48	1896	1896
28	72	1929*	40	1906*	58	1932	49	1906	1906
29	69	1935*	40	1906	58	1935	51	1919	1919
30	72	1959	42	1897*	56	1921*	51	1922	1922

RECORD TEMPERATURES SINCE 1875

DECEMBER

DAY	RECORD			RECORD			RECORD			RECORD		
	MAX	LATEST	YEAR	MIN	LATEST	YEAR	HIGH	MIN	LATEST	YEAR	LOW	MAX
1	71	1959	1972	42	1972	1972	58	58	1875	1875	51	1963
2	71	1958	1906	40	1906	1906	57	57	1941	1941	50	1963*
3	73	1958	1963*	41	1963*	1963*	55	55	1958	1958	47	1919
4	71	1958	1897	34	1897	1897	56	56	1970*	1970*	46	1963
5	74	1929	1972*	40	1972*	1972*	56	56	1878	1878	48	1963
6	69	1893	1909	40	1909	1909	58	58	1925	1925	49	1963*
7	70	1925	1972	38	1972	1972	57	57	1950	1950	48	1972*
8	72	1893	1972	34	1972	1972	56	56	1893*	1893*	40	1972
9	71	1940	1972	30	1972	1972	58	58	1939	1939	37	1972
10	68	1958	1972	32	1972	1972	63	63	1937	1937	41	1972
11	73	1958	1932	27	1932	1932	58	58	1937	1937	35	1932
12	76	1958	1932	31	1932	1932	60	60	1929	1929	44	1972*
13	71	1911	1972	35	1972	1972	58	58	1929	1929	45	1967*
14	68	1958	1972	35	1972	1972	58	58	1929	1929	41	1972
15	65	1944	1972	36	1972	1972	58	58	1941	1941	42	1972
16	68	1958	1973	37	1973	1973	55	55	1929	1929	44	1972
17	68	1958	1963*	39	1963*	1963*	56	56	1940	1940	45	1963
18	68	1910	1924	36	1924	1924	56	56	1884	1884	45	1924*
19	66	1929*	1908	36	1908	1908	57	57	1969	1969	44	1924*
20	69	1887	1908	35	1908	1908	58	58	1969	1969	43	1909
21	64	1969*	1965*	35	1965*	1965*	57	57	1955	1955	42	1908
22	67	1914	1908	37	1908	1908	60	60	1964	1964	43	1908
23	65	1885	1928	36	1928	1928	59	59	1964	1964	44	1879
24	72	1901	1879	34	1879	1879	58	58	1884	1884	44	1879
25	67	1967	1891	37	1891	1891	56	56	1967*	1967*	45	1879
26	74	1967	1924	36	1924	1924	57	57	1892	1892	44	1916
27	71	1953	1879	36	1879	1879	60	60	1967	1967	44	1908
28	73	1967	1916	37	1916	1916	54	54	1973*	1973*	45	1908*
29	66	1975	1899	38	1899	1899	56	56	1945	1945	45	1911
30	68	1945	1915	36	1915	1915	53	53	1886	1886	45	1915*
31	67	1958	1882	34	1882	1882	54	54	1954	1954	42	1882

NORMAL SEASONAL PRECIPITATION BY DATE

DAY/MONTH	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1	0	.01	.06	.24	1.35	4.00	8.22	12.70	15.65	18.39	19.98	20.50
2	0			.26	1.41	4.11	8.37	12.82	15.75	18.46	20.01	20.51
3	0			.28	1.47	4.23	8.52	12.94	15.85	18.53	20.04	20.52
4	0			.30	1.53	4.35	8.67	13.05	15.95	18.60	20.07	20.53
5	0			.32	1.60	4.47	8.83	13.16	16.05	18.67	20.10	20.54
6	0			.34	1.67	4.59	8.99	13.27	16.15	18.74	20.12	20.55
7	0		.07	.36	1.74	4.71	9.15	13.38	16.25	18.81	20.14	20.56
8	0			.38	1.81	4.84	9.31	13.49	16.35	18.88	20.16	20.57
9	0			.40	1.89	4.97	9.47	13.60	16.44	18.94	20.18	20.58
10	0			.42	1.97	5.10	9.62	13.71	16.53	19.00	20.20	20.59
11	0	.02		.45	2.05	5.23	9.77	13.82	16.52	19.06	20.22	20.60
12	0			.48	2.13	5.36	9.92	13.93	16.71	19.12	20.24	20.61
13	0			.51	2.21	5.49	10.07	14.04	16.80	19.18	20.26	20.62
14	0			.54	2.30	5.62	10.22	14.15	16.89	19.24	20.28	20.63
15	0		.08	.57	2.39	5.75	10.37	14.25	16.98	19.30	20.30	20.64
16	0		.09	.60	2.48	5.89	10.52	14.35	17.07	19.35	20.32	20.65
17	0		.10	.64	2.57	6.03	10.67	14.45	17.16	19.40	20.34	
18	0		.11	.68	2.66	6.17	10.82	14.55	17.25	19.45	20.36	
19	0	.03	.12	.72	2.75	6.31	10.96	14.65	17.34	19.50	20.37	
20	0		.13	.76	2.85	6.45	11.10	14.75	17.43	19.55	20.38	
21	0		.14	.80	2.95	6.59	11.24	14.85	17.52	19.60	20.39	
22	0		.15	.84	3.05	6.73	11.38	14.95	17.61	19.65	20.40	
23	0	.04	.16	.88	3.15	6.87	11.52	15.05	17.69	19.69	20.41	
24	0		.17	.93	3.25	7.02	11.66	15.15	17.77	19.73	20.42	
25	0		.18	.98	3.35	7.17	11.80	15.25	17.85	19.77	20.43	
26	0		.19	1.03	3.45	7.32	11.93	15.35	17.93	19.81	20.44	
27	0	.05	.20	1.08	3.56	7.47	12.06	15.45	18.01	19.85	20.45	
28	0		.21	1.13	3.67	7.62	12.19	15.55	18.09	19.89	20.46	20.66
29	0		.22	1.18	3.78	7.77	12.32	(15.55)	18.17	19.92	20.47	
30	.01		.23	1.23	3.89	7.92	12.45		18.25	19.95	20.48	20.66
31	.01	.06		1.29		8.07	12.58		18.32		20.49	
MONTHLY	.01	.05	.17	1.06	2.60	4.18	4.51	2.97	2.77	1.63	.54	.17

:27-

LONG TERM YEARLY NORMAL PRECIPITATION

<u>TEN YEAR NORMALS</u>		<u>THIRTY YEAR NORMALS</u>	
1851 - 1860	22.89	1851 - 1880	24.29
1861 - 1870	24.93	1861 - 1890	24.75
1871 - 1880	25.04	1871 - 1900	22.24
1881 - 1890	24.29	1881 - 1910	21.79
1891 - 1900	17.39	1891 - 1920	20.25
1901 - 1910	23.70	1901 - 1930	20.97
1911 - 1920	19.67	1911 - 1940	20.39
1921 - 1930	19.54	1921 - 1950	19.68
1931 - 1940	21.97	1931 - 1960	20.71
1941 - 1950	17.54	1941 - 1970	20.03
1951 - 1960	22.62		
1961 - 1970	19.93		

127 SEASON NORMAL - 21.45

PRECIPITATION RECORDS
SAN FRANCISCO CITY OFFICE

1849-30 Jun 1977
Unless otherwise
noted

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANN SEA¹

MAXIMUM

MONTHLY AMT 24.36 12.52 8.75 10.06 4.02 2.57 0.62 .78 5.07 7.78 11.78 15.16 38.82 49.27
PRECIP YR 1862 1887 1879 1880 1925 1884 1974 1976 1904 1889 1885 1866 1884 1861-1862

MINIMUM

MONTHLY AMT .26 0 0.03 0 0 0 0 0 0 0 0 0 8.73 7.16
PRECIP YR 1920 1864 1923 1857 1974 1973* 1973* 1973* 1970* 1917* 1933* 1876 1976 1975-1976

MAXIMUM²

24 HR AMT 4.67 3.60 3.65 2.43 1.42 1.36 .61 .49 3.58 3.11 3.98 3.44 4.67
PRECIP DATE 29, 4-5, 29-30, 23-24, 27-28, 1-2, 8 11 23-24, 12-13, 23, 20-21, 29 Jan 1881
1881 1887 1940 1896 1925 1967 1974 1965 1904 1962 1874 1924

MAXIMUM

DAILY² AMT 3.22 3.38 2.73 2.04 1.34 1.34 .61 .49 3.09 2.29 3.98 3.28 3.98
PRECIP DATE 14, 15, 5, 2, 2, 2, 8, 11, 23, 15, 23, 23, 23 Nov 1974
1956 1891 1879 1958 1925 1967 1974 1965 1904 1969 1874 1915

MAXIMUM

PRECIP AMT .95 .91 1.24 1.09 .70 .51 .27 .22 1.29 .98 .95 1.29 1.29
2-HR² YR 1956 1927 1912 1958 1958 1907 1974 1951 1904 1972 1918 1969 Dec 1969

1 HR²

AMT .72 .64 1.07 .96 .65 .35 .18 .18 .97 .70 .92 .76 1.07
YR 1941 1951 1912 1958 1958 1907 1974 1951 1904 1972 1918 1951 Mar 1912

30-MIN²

AMT .67 .54 .83 .63 .39 .20 .12 .17 .74 .58 .83 .50 .83
YR 1941 1940 1912 1941 1958 1907 1974 1951 1904 1950 1912 1906 Nov 1912

15-MIN²

AMT .51 .47 .59 .47 .39 .13 .08 .15 .43 .53 .65 .57 .65
YR 1969 1915 1912 1941 1958 1953 1974 1951 1904 1905 1918 1969 Nov 1918

10-MIN²

AMT .48 .37 .45 .40 .35 .10 .07 .12 .32 .41 .51 .31 .51
YR 1969 1940 1971 1941 1958 1953 1974 1951 1904 1950 1918 1969 Nov 1918

5-MIN²

AMT .38 .23 .26 .26 .31 .09 .05 .10 .16 .27 .33 .29 .38
YR 1969 1940* 1971 1941 1958 1953 1974 1951 1904 1950 1926 1967 Jan 1969

*Last of several occurrences. 1: Season: Jul 1-Jun 30. 2. 1871-31 Dec 1974

PRECIPITATION RECORDS
SAN FRANCISCO CITY OFFICE

1849-30 Jun 1977
Unless otherwise noted

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
YRS W/RAIN	128	127	128	125	113	83	47	45	82	116	123	126	
YRS WO/RAIN	0	1	0	3	15	45	80	82	45	11	4	1	
MOST DAYS .01"	26*	20	23	17*	13	9	4*	4*	6	13	21	24	96
YR	1916	1915	1904	1967	1957	1888	1958	1954	1960	1889	1885	1889	1957
LEAST DAYS .01"	2	0	2*	0*	0*	0*	0*	0*	0*	0*	0*	0	36
YR	1976	1864	1934	1949	1974	1977	1976	1974	1974	1959	1959	1876	1959
MOST CONSECUTIVE DAYS .01"	14	15	12*	11	7	5	2*	3	5	8	10	14	
YR	1967	1936	1907	1880	1957	1947	1974	1954	1904	1972	1893	1964	
DAYS 1.00"	153	96	71	36	12	1	0	0	7	25	68	134	603
AVG	1	1	1	0+	0+	0+	0	0	0+	0+	1	1	5
MAXIMUM 2 SNOWFALL	.3	3.7	1.0	0	0	0	0	0	0	0	T	3.5	
YR	1952	1887	1896								1951	1882	
MEAN	T	T	T	0	0	0	0	0	0	0	0	T	T

ACCUMULATIVE PRECIPITATION
TEN WETTEST SEASONS
1849 - Jun 1977

JUL 1 THRU:	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1.	.62 1974	.78 1976	5.15 1904	7.52 1885	12.67 1889	24.00 1862	38.02 1862	45.55 1862	47.75 1862	48.48 1862	49.22 1862	49.27 1862
2.	1886	.62 1974	2.53 1918	7.29 1889	12.40 1972	19.31 1852	33.61 1890	38.77 1890	43.50 1890	44.68 1890	45.75 1890	45.85 1890
3.	.21 1860	.51 1965	2.08 1959	6.00 1972	11.80 1849	18.62 1866	26.34 1850	31.63 1973	36.27 1868	38.58 1868	38.61 1868	38.84 1868
4.	.20 1975	.44 1951	1.52 1916	5.80 1962	10.19 1889	18.00 1849	25.31 1973	30.98 1867	34.26 1973	35.51 1958	36.39 1958	36.48 1958
5.	.10 1891	.32 1916	1.47 1957	4.93 1957	9.72 1973	17.66 1885	25.08 1886	29.97 1868	33.95 1878	35.01 1878	35.26 1853	35.26 1853
6.	.08 1906	.25 1935	1.29 1976	3.92 1899	9.26 1874	17.26 1871	23.84 1868	29.39 1878	32.64 1850	34.97 1867	35.17 1878	35.18 1878
7.	.07 1913	.23 1954	1.25 1912	3.76 1876	9.15 1926	15.94 1864	23.78 1867	28.16 1872	32.56 1850	34.88 1853	35.06 1941	35.05 1941
8.	.06 1966	.23 1886	1.06 1939	3.14 1849	8.59 1904	15.93 1972	23.27 1952	28.11 1850	30.79 1952	34.28 1973	34.98 1867	34.92 1867
9.	.06 1949	.22 1975	1.06 1898	2.99 1924	8.30 1918	15.07 1945	23.23 1853	28.86 1914	30.04 1958	33.86 1941	34.36 1973	34.36 1973
10.	.06 1946	.21 1864	1.05 1851	2.95 1922*	7.97 1944	14.49 1922	22.64 1956	26.05 1881	29.81 1941	33.10 1850	33.10 1850	33.10 1850

*Last of several occurrences

ACCUMULATIVE PRECIPITATION

TEN DRIEST SEASONS
Jul 1849 - Jun 1977

JUL 1 THRU	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1.	0 1976*	0 1975*	0 1927*	0 1855	.01 1929	1.55 1917	2.36 1918	3.56 1851	5.50 1851	6.73 1851	7.13 1976	7.16 1976
2.				0 1905	.30 1958	1.78 1958	3.02 1851	5.41 1976	6.42 1976	7.12 1976	7.40 1851	7.42 1851
3.				.01 1932	.33 1890	1.89 1956	3.58 1975	5.81 1920	7.56 1898	7.75 1898	9.19 1898	9.38 1898
4.				.01 1929	.38 1880	2.30 1850	4.56 1891	6.21 1864	7.73 1864	9.30 1864	10.02 1977	10.02 1977
5.				.02 1917	.46 1870	2.48 1939	4.58 1920	6.30 1912	9.06 1920	9.45 1920	10.08 1864	10.08 1864
6.				.02 1915	.67 1862	2.91 1910	4.73 1957	7.32 1898	9.40 1977	10.42 1920	10.42 1920	10.46 1959
7.				.02 1861	.67 1855	2.97 1905	5.19 1898	7.39 1977	9.88 1972	10.44 1959	10.46 1959	10.46 1920
8.				.03 1863	.75 1936	2.98 1878	5.74 1959	7.77 1899	10.08 1959	10.85 1877	10.95 1972	11.04 1877
9.				.03 1870	.83 1917	3.02 1862	5.89 1911	7.89 1961	10.16 1961	10.95 1972	11.03 1877	11.06 1972
10.	T 1970*	T 1970*	T 1970*	.05 1880	.88 1911	3.10 1929	6.06 1924	8.15 1918	10.40 1912	10.95 1961	11.48 1918	11.48 1918

*Last of several occurrences.

LONGEST RAIN PERIODS

CONSECUTIVE DAYS

1"	4	8 Jan 1862 - 11 Jan 1862	
.5"	7	16 Jan 1862 - 22 Jan 1862	
.25"	10	17 Dec 1884 - 26 Dec 1884	.60 .57 .63 1.62 .28 .48 2.01 .52 .37 .40
.01"	20	18 Dec 1964 - 6 Jan 1965	.23 .18 .15 .65 .78 .46 .16 .10 .43 .31
			.27 .61 .53 .14 .81 .80 .62 .38 .77 .06

LONGEST DRY PERIODS

CONSECUTIVE DAYS

194	2 May 1905 - 18 Nov 1905
180	29 Mar 1909 - 25 Sep 1909
176	16 Apr 1903 - 9 Oct 1903
174	20 May 1955 - 10 Nov 1955
164	17 May 1852 - 28 Oct 1852
155	12 Apr 1967 - 14 Sep 1967

MONTHLY PRECIPITATION DATA
1849-1874 (By Season)

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1849-50	0.00	0.00	0.00	3.14	8.66	6.20	8.34	1.77	4.53	0.46	0.00	0.00	33.10
1850-51	0.00	0.00	0.33	0.00	0.92	1.05	0.72	0.54	1.94	1.23	0.67	0.02	7.42
1851-52	0.00	0.02	1.03	0.21	2.12	7.10	0.58	0.14	6.68	0.26	0.32	0.00	18.46
1852-53	0.00	0.00	0.00	0.80	5.31	13.20	3.92	1.42	4.86	5.37	0.38	0.00	35.26
1853-54	0.00	0.04	0.46	0.12	2.28	2.32	3.88	8.04	3.51	3.12	0.02	0.08	23.87
1854-55	0.00	0.01	0.15	2.43	0.34	0.87	3.67	4.77	4.64	4.99	1.88	0.00	23.76
1855-56	0.00	0.00	0.00	0.00	0.67	5.76	9.40	0.50	1.60	2.94	0.76	0.03	21.66
1856-57	0.02	0.00	0.07	0.45	2.79	3.75	2.45	8.59	1.62	0.00	0.05	0.12	19.91
1857-58	0.00	0.05	0.00	0.93	3.01	4.14	4.36	1.83	5.55	1.55	0.34	0.05	21.81
1858-59	0.05	0.16	0.00	2.74	0.69	6.14	1.28	6.32	3.02	0.27	1.55	0.00	22.22
1859-60	0.00	0.02	0.03	0.05	7.28	1.57	1.64	1.60	3.99	3.14	2.86	0.09	22.27
1860-61	0.21	0.00	0.00	0.91	0.58	6.16	2.47	3.72	4.08	0.51	1.00	0.08	19.72
1861-62	0.00	0.00	0.02	0.00	4.10	9.54	24.36	7.53	2.20	0.73	0.74	0.05	49.27
1862-63	0.00	0.00	0.00	0.52	0.15	2.35	3.63	3.19	2.06	1.61	0.23	0.00	13.74
1863-64	0.00	0.00	0.03	0.00	2.55	1.80	1.83	0.00	1.52	1.57	0.78	0.00	10.08
1864-65	0.00	0.21	0.01	0.13	6.68	8.91	5.14	1.34	0.74	0.94	0.63	0.00	24.73
1865-66	0.00	0.00	0.24	0.26	4.19	0.58	10.88	2.12	3.04	0.12	1.46	0.04	22.93
1866-67	0.00	0.00	0.11	0.00	3.35	15.16	5.16	7.20	1.58	2.36	0.00	0.00	34.92
1867-68	0.00	0.00	0.04	0.20	3.41	10.69	9.50	6.13	6.30	2.31	0.03	0.23	38.84
1868-69	0.00	0.00	0.00	0.15	1.18	4.34	6.35	3.90	3.14	2.19	0.08	0.02	21.35
1869-70	0.00	0.00	0.12	1.29	1.19	4.31	3.89	4.78	2.00	1.53	0.20	0.00	19.31
1870-71	0.00	0.00	0.03	0.00	0.43	3.38	3.07	3.76	1.31	1.89	0.23	0.01	14.11
1871-72	0.00	0.02	0.00	0.07	2.81	14.36	4.00	6.90	1.59	0.81	0.18	0.04	30.78
1872-73	0.01	0.00	0.04	0.11	2.79	5.95	1.58	3.94	0.79	0.43	0.00	0.02	15.06
1873-74	0.01	0.08	0.00	0.83	1.16	9.72	5.66	2.21	3.36	0.90	0.66	0.14	24.73

MONTHLY PRECIPITATION DATA
1874-1899 (By Season)

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1874-75	0.00	0.00	0.02	2.69	6.55	0.33	8.01	0.32	1.30	0.10	0.22	1.02	20.56
1875-76	0.00	0.00	0.00	0.24	7.27	4.15	7.55	4.92	5.49	1.29	0.24	0.04	31.19
1876-77	0.01	0.01	0.38	3.36	0.25	0.00	4.32	1.18	1.08	0.26	0.18	0.01	11.04
1877-78	0.02	0.00	0.00	0.65	1.57	2.66	11.97	12.52	4.56	1.06	0.16	0.01	35.18
1878-79	0.01	T	0.55	1.27	0.57	0.58	3.52	4.90	8.75	1.89	2.35	0.05	24.44
1879-80	0.01	0.02	T	0.78	4.03	4.46	2.23	1.87	2.08	10.06	1.12	0.00	26.66
1880-81	0.00	0.00	0.00	0.05	0.33	12.33	8.69	4.65	0.90	2.00	0.22	0.69	29.86
1881-82	0.00	0.00	0.25	0.54	1.94	3.85	1.68	2.96	3.45	1.22	0.21	0.04	16.14
1882-83	0.00	0.00	0.26	2.66	4.18	2.01	1.92	1.04	3.01	1.51	3.52	0.01	20.12
1883-84	0.00	0.00	0.42	1.48	1.60	0.92	3.94	6.65	8.24	6.33	0.23	2.57	32.38
1884-85	T	0.04	0.33	2.55	0.26	7.68	2.53	0.30	1.01	3.17	0.04	0.19	18.10
1885-86	0.06	T	0.11	0.72	11.78	4.99	7.42	0.24	2.07	5.28	0.37	0.01	33.05
1886-87	0.23	T	0.01	1.48	0.84	2.07	1.90	9.24	0.83	2.30	0.06	0.07	19.04
1887-88	T	0.01	0.29	T	0.99	3.34	6.81	0.94	3.60	0.11	0.38	0.27	16.74
1888-89	0.01	0.01	0.98	0.13	3.99	5.80	1.28	0.72	7.78	0.96	2.17	0.03	23.86
1889-90	0.01	T	T	7.28	2.90	13.81	9.61	5.16	4.73	1.18	1.07	0.10	45.85
1890-91	0.02	0.00	0.31	0.00	0.00	3.25	0.98	7.26	1.96	2.44	1.25	0.11	17.58
1891-92	0.10	0.02	0.77	0.04	0.56	5.62	2.42	2.90	2.85	1.39	1.86	T	18.53
1892-93	0.00	0.00	0.02	1.65	3.91	5.08	3.05	2.75	4.08	1.03	0.15	0.03	21.75
1893-94	0.00	0.00	0.21	0.16	4.18	2.25	5.99	2.69	0.60	0.50	1.31	0.56	18.47
1894-95	T	0.00	1.05	1.73	0.88	9.01	6.99	2.81	1.89	1.24	0.60	0.00	25.70
1895-96	0.01	0.00	0.77	0.11	1.78	1.43	8.14	0.28	2.85	5.16	0.72	0.00	21.25
1896-97	0.04	0.09	0.52	1.55	4.56	4.34	2.26	4.41	4.56	0.27	0.61	0.22	23.43
1897-98	T	T	0.10	1.70	1.05	1.22	1.12	2.13	0.24	0.19	1.44	0.19	9.38
1898-99	0.00	T	1.06	0.86	0.46	1.62	3.67	0.10	7.61	0.62	0.86	0.01	16.87

MONTHLY PRECIPITATION DATA
1899-1924 (By Season)

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1899-1900	0.00	T	0.00	3.92	3.79	2.65	4.11	0.64	1.91	1.08	0.32	0.05	18.47
1900-01	T	T	0.46	1.48	3.91	1.37	5.79	5.03	0.80	1.64	0.69	T	21.17
1901-02	T	T	0.78	0.64	3.48	0.90	1.23	7.27	2.65	0.98	1.05	T	18.98
1902-03	T	T	T	1.70	1.98	2.32	3.73	1.76	6.23	0.56	T	T	18.28
1903-04	0.00	T	T	0.17	4.25	1.63	1.05	5.89	6.01	1.29	0.30	T	20.59
1904-05	0.02	0.06	5.07	2.37	1.07	1.59	4.04	2.70	3.15	1.33	2.05	0.00	23.45
1905-06	0.00	T	T	T	0.92	2.05	3.90	4.30	5.02	0.92	2.75	0.56	20.42
1906-07	0.08	0.11	0.18	0.03	1.59	6.90	4.41	3.20	8.42	0.11	0.04	1.28	26.17
1907-08	T	0.02	0.11	1.36	0.04	3.66	4.88	5.39	0.90	0.22	0.76	0.01	17.35
1908-09	0.02	0.01	0.13	0.61	1.34	2.15	10.51	7.53	3.27	T	T	T	25.57
1909-10	T	0.00	0.80	1.23	2.43	5.59	3.24	2.09	3.78	0.31	0.03	0.02	19.52
1910-11	T	0.00	0.05	0.65	0.48	1.73	13.79	3.02	4.57	0.89	0.28	0.03	25.49
1911-12	T	0.00	T	0.28	0.60	2.54	2.47	0.41	4.10	1.38	1.47	0.81	14.06
1912-13	T	0.00	1.25	0.49	1.94	1.30	3.84	0.43	1.47	0.60	0.63	0.02	11.97
1913-14	0.07	0.01	0.00	0.35	6.22	5.41	9.76	5.04	1.09	0.99	0.37	0.29	29.60
1914-15	0.02	0.00	T	0.29	0.70	5.49	6.74	7.36	3.02	0.62	3.17	0.00	27.41
1915-16	0.01	0.00	0.00	0.01	0.92	6.42	14.59	3.77	1.33	0.00	0.07	T	27.12
1916-17	0.03	0.29	1.20	0.52	1.50	4.79	1.83	3.81	1.42	0.33	0.06	T	15.78
1917-18	T	T	0.02	0.00	0.81	0.72	0.81	5.79	2.73	0.60	T	T	11.48
1918-19	T	0.00	2.53	0.17	5.60	2.62	2.57	9.31	2.74	0.10	T	T	25.64
1919-20	0.01	T	0.39	0.27	0.44	3.21	0.26	1.23	3.25	1.36	T	0.04	10.46
1920-21	T	0.00	0.13	1.83	2.70	7.48	6.30	1.38	2.28	0.54	0.52	T	23.16
1921-22	0.00	0.00	0.35	0.52	1.43	6.39	2.41	5.15	2.38	0.47	0.55	0.26	19.91
1922-23	T	T	T	2.95	3.77	7.77	2.84	0.77	0.03	3.92	0.06	0.07	22.17
1923-24	0.00	0.01	0.44	0.46	0.49	1.91	2.75	3.30	1.96	0.30	T	0.00	11.62

MONTHLY PRECIPITATION DATA
1924-1949 (By Season)

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1924-25	0.00	0.01	T	2.98	1.50	7.37	1.62	7.90	2.63	2.73	4.02	0.05	30.81
1925-26	0.06	T	0.45	0.31	2.32	1.01	5.48	5.40	0.25	5.26	0.15	T	20.69
1926-27	0.00	0.04	T	1.90	7.21	1.04	3.77	6.85	2.9	1.95	0.10	0.38	25.43
1927-28	T	T	T	1.93	3.18	3.94	2.40	1.97	4.65	1.31	0.26	T	19.64
1928-29	T	T	0.03	0.13	3.35	4.89	1.32	2.14	1.56	1.01	0.01	0.86	15.30
1929-30	T	0.00	T	0.01	0.00	3.09	4.99	2.94	3.53	1.56	0.16	T	16.28
1930-31	0.00	0.00	0.10	0.89	1.56	0.98	5.50	1.10	1.68	0.31	1.10	0.32	13.54
1931-32	T	0.00	T	0.68	2.93	9.24	3.23	3.00	0.86	0.47	0.65	0.03	21.09
1932-33	T	0.00	0.00	0.01	1.00	2.75	5.68	1.12	2.93	0.06	1.36	0.01	14.93
1933-34	0.00	T	0.14	1.49	0.00	4.19	1.03	4.68	0.07	0.51	0.12	0.68	12.91
1934-35	0.01	T	0.13	0.88	3.76	4.06	6.23	2.38	2.31	3.45	0.01	T	23.22
1935-36	T	0.25	0.08	1.44	1.24	3.25	5.77	10.06	1.01	1.09	0.49	0.28	24.96
1936-37	0.03	0.02	T	0.69	0.01	2.94	5.26	4.88	7.05	0.86	0.06	0.59	22.39
1937-38	T	T	T	0.90	2.46	3.73	2.65	8.49	5.73	1.52	T	0.00	25.48
1938-39	0.01	0.00	0.15	1.33	0.88	1.48	3.07	1.94	2.62	0.42	0.68	T	12.53
1939-40	T	T	1.06	0.17	0.20	1.05	9.98	7.81	5.32	0.94	0.63	0.01	27.17
1940-41	T	T	0.59	1.05	2.22	6.25	8.24	6.71	4.75	4.05	1.18	0.01	35.05
1941-42	0.01	0.03	T	0.93	1.99	7.29	4.76	4.27	2.62	3.65	1.11	T	26.66
1942-43	0.01	T	0.18	0.95	4.45	2.87	6.15	1.95	3.18	1.88	0.13	0.13	21.88
1943-44	T	0.00	0.02	0.74	0.80	2.69	4.31	5.34	0.83	2.07	0.94	0.12	17.86
1944-45	0.01	0.02	0.00	1.70	6.24	3.97	1.33	3.43	4.15	0.32	0.64	0.01	21.82
1945-46	T	T	0.04	1.95	3.24	9.84	1.76	2.03	2.34	0.05	0.37	0.02	21.64
1946-47	0.06	T	0.06	0.15	2.73	2.77	1.35	2.65	3.64	0.17	0.67	0.64	14.89
1947-48	T	T	T	2.09	1.39	1.84	1.00	2.32	3.36	3.04	0.54	0.01	15.59
1948-49	0.02	0.02	0.09	0.20	1.18	4.75	2.20	3.04	5.85	T	0.93	T	18.28

MONTHLY PRECIPITATION DATA
1949-June 1977 (By Season)

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1949-50	0.06	0.04	T	0.08	1.18	2.77	7.40	2.33	1.65	0.87	0.37	0.03	16.78
1950-51	T	T	T	2.72	4.96	6.01	4.41	3.00	1.32	0.89	0.75	0.04	24.00
1951-52	0.01	0.43	0.08	0.81	3.33	7.92	10.69	2.62	4.90	1.08	0.30	0.39	32.56
1952-53	T	0.01	T	0.07	2.24	9.06	3.26	0.04	1.83	3.42	0.38	0.61	21.10
1953-54	T	0.07	T	0.34	1.88	0.82	3.11	2.42	4.56	0.62	0.11	0.14	14.27
1954-55	0.03	0.20	T	0.24	2.55	5.67	4.05	1.18	0.29	1.49	0.04	T	15.74
1955-56	0.02	T	0.02	0.03	2.38	11.47	8.72	2.03	0.12	1.68	0.68	0.02	27.17
1956-57	T	0.01	0.33	1.14	0.04	0.37	2.84	3.58	2.39	1.09	3.19	0.06	15.04
1957-58	0.01	T	1.46	3.46	1.13	3.60	4.38	7.78	8.22	5.47	0.88	0.09	36.48
1958-59	0.05	T	0.04	0.12	0.09	1.48	3.96	4.04	0.30	0.36	0.02	T	10.46
1959-60	T	0.02	2.06	T	T	1.71	4.04	3.57	2.06	1.16	0.85	T	15.47
1960-61	T	T	T	0.48	3.35	2.31	2.79	0.96	2.27	0.79	0.88	0.04	13.87
1961-62	T	0.02	0.22	0.09	4.44	2.13	1.08	6.58	2.76	0.36	T	T	17.68
1962-63	T	0.07	0.22	5.51	0.60	2.81	3.35	1.92	3.87	3.35	0.45	T	22.15
1963-64	T	T	0.06	1.39	3.52	0.87	3.37	0.19	2.12	0.01	0.22	0.57	12.32
1964-65	T	0.01	T	1.90	3.99	5.35	3.97	0.94	2.92	3.21	T	T	22.29
1965-66	0.02	0.49	T	0.01	4.79	3.51	3.27	2.72	0.80	0.36	0.19	0.17	16.33
1966-67	0.06	0.10	0.10	0.01	4.80	3.87	9.49	0.22	4.35	4.90	0.09	1.42	29.41
1967-68	0.00	T	0.04	0.53	1.10	2.12	4.54	2.28	3.15	0.48	0.22	T	14.46
1968-69	T	0.03	0.06	0.62	2.67	3.91	7.74	7.26	1.01	1.74	T	0.05	25.09
1969-70	T	T	0.01	2.61	0.45	6.15	7.81	1.56	1.55	0.06	0.03	0.57	20.80
1970-71	T	T	0.00	0.84	6.44	5.39	2.04	0.26	2.91	0.72	0.19	T	18.79
1971-72	0.01	0.01	0.22	0.11	1.92	3.93	1.32	2.13	0.23	1.07	T	0.11	11.06
1972-73	0.01	0.04	0.54	5.41	6.40	3.53	9.38	6.32	2.63	0.02	0.08	0.00	34.36
1973-74	0.00	0.00	0.30	1.62	7.80	3.65	3.40	1.53	4.49	2.34	0.00	0.10	25.23
1974-75	0.62	0.00	0.00	0.85	0.40	1.53	2.57	3.72	5.15	1.23	0.02	0.04	16.13
1975-76	0.20	0.02	0.00	2.44	0.43	0.18	0.31	1.83	1.01	0.70	0.01	0.03	7.16
1976-77	0.00	0.78	0.51	0.38	1.04	2.13	1.65	0.90	2.01	0.05	0.57	0.00	10.02

SUMMARY OF SNOWFALL IN SAN FRANCISCO
(1850 - Mar 1973)

<u>DATE</u>	<u>AMOUNT</u>	<u>DATE</u>	<u>AMOUNT</u>
25 Dec 1856	2.5"	13 Dec 1931	T
12 Jan 1868	2.0"	31 Jan 1932	T
2 Dec 1873	T	1 Feb 1932	T
21 Jan 1876	T	2 Feb 1932	T
31 Dec 1882	3.5"	8 Dec 1932	T
	Snow fell from 11:30 AM-4:20 PM	9 Dec 1932	T
6 Feb 1883	T	11 Dec 1932	0.8"
7 Feb 1884	1.5"	21 Mar 1935	T
	Snow fell at intervals during	31 Dec 1941	T
	day. Depths from 1"-2".	14 Mar 1942	T
	3.7 "	23 Jan 1949	T
5 Feb 1887		26 Feb 1951	T
	Snow fell during day. Fully	28 Feb 1951	T
	7" in Western portion of City.	1 Mar 1951	T
4 Jan 1888	T	20 Nov 1951	T
16 Jan 1888	0.1"	30 Dec 1951	T
2 Mar 1894	T	12 Jan 1952	T
2 Mar 1896	T	14 Jan 1952	T
3 Mar 1896	1.0"	15 Jan 1952	T
	Heavy snow during night.	19 Mar 1952	0.3"
4 Feb 1899	T	1 Mar 1953	T
3 Feb 1903	T	10 Mar 1954	T
5 Mar 1908	T	16 Mar 1954	T
6 Mar 1908	T	20 Mar 1954	T
26 Feb 1911	T	26 Feb 1955	T
27 Feb 1911	T	27 Feb 1955	T
9 Jan 1913	T	28 Jan 1957	T
27 Jan 1916	T	21 Jan 1962	T
28 Jan 1916	T		
29 Jan 1916	T		
13 Jan 1930	T		

Thru June 1977

MISC. MEANS AND EXTREMES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
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WIND

MEAN SPEED ¹	6.7	7.5	8.5	9.5	10.4	10.9	11.2	10.5	9.1	7.6	6.3	6.5	8.7
PREV DIR 1	N	W	W	W	W	W	W	W	W	W	W	N	
FASTEST MILE ²	47	48	44	38	38	40	38	35	38	43	51	51	51
DIRECTION ²	SE	S	S						N	SE	NE	NE	NE
YEAR 2	1965	1917	1948	1965	1965*	1965*	1939	1929	1923	1950	1919	1923	1923*

RELATIVE HUMIDITY³

04 PST	81	83	81	82	89	89	92	93	87	81	82	80	85
10 PST	72	70	61	59	65	70	73	73	64	62	69	71	67
16 PST	63	63	61	61	68	72	74	73	66	60	63	63	66
22 PST	76	76	76	80	86	88	90	90	82	74	76	74	81

PRESSURE⁴

HIGHEST YEAR	30.62	30.62	30.64	30.48	30.35	30.38	30.28	30.29	30.26	30.39	30.51	30.61	30.64
	1916	1916	1902	1902	1953*	1902	1902	1902	1901	1921*	1895	1901	1902
LOWEST YEAR	28.85	29.13	29.34	29.43	29.63	29.62	29.65	29.60	29.50	29.50	29.40	29.33	28.85
	1916	1891	1906*	1931	1941	1892	1926	1932	1927	1951	1952	1940	1916

SUNSHINE⁵
(% OF POSSIBLE)

MAXIMUM YEAR	79	95	88	95	86	94	88	90	94	91	92	85	80
	1962	1964	1944	1968	1967*	1919	1916	1969	1970	1912	1929	1956	1959
MINIMUM YEAR	18	25	32	43	43	50	46	46	46	43	27	32	56
	1909	1902	1906	1948	1891	1948	1914	1917*	1973	1952	1973	1949	1892
MEAN	56	62	69	74	72	73	66	66	72	71	62	45	67

* Last of several occurrences 1. Thru 1964. 2. 1912-Mar 1972. 3. Thru 1972.
4. 1892-1958. 5. 1891-1974.

